## Initiative: Develop an Alternative Risk-Informed Approach to Special Treatment Requirements in Part 50

Lead Office/Division: NRR/DRA Supporting Offices/Divisions: (none)

## Description

The Commission decided in1998 to consider promulgating new regulations that would provide an alternative risk-informed approach for special treatment requirements in the current regulations for power reactors. Special treatment requirements for structures, systems, and components go beyond industry-established requirements for equipment classified as "commercial grade." Special treatment requirements provide additional confidence that the equipment is capable of meeting its functional requirements under design basis conditions. These special treatment requirements include additional design considerations, qualification, change control, documentation, reporting, maintenance, testing, surveillance, and quality assurance requirements.

The Commission approved the final rule, with some modifications, in an affirmation session on October 7, 2004. The final rule was published in the *Federal Register* on November 22, 2004 (69 FR 68008). The NRC staff issued Regulatory Guide (RG) 1.201, "Guidelines for Categorizing Structures, Systems, and Components in Nuclear Power Plants According to Their Safety Significance," Revision 1, on April 28, 2006.

A pilot plant application of the risk-informed approach set forth in § 50.69 has been received by NRC. On September 25, 2006, the Nuclear Energy Institute submitted Westinghouse Topical Report WCAP-16308-NP (Revision 0, July 2006), "Pressurized Water Reactor Owners Group 10 CFR 50.69 Pilot Program - Categorization Process - Wolf Creek Generating Station," for NRC review. The application primarily addresses the categorization of passive component functions, i.e., the pressure boundary failure of pipes and components. The staff developed draft RAIs on the topical report, and a public meeting was held July 11, 2007 to discuss the RAIs. The staff's RAIs were submitted to Westinghouse on August 27, 2007.